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SEP 11 2002
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TYPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/083,424A

DATE: 08/22/2002
TIME: 16:26:39

Input Set : A:\5294-6 sequence listing for diskette - no page numbers.txt
Output Set: N:\CRF4\08222002\J083424A.raw

4 <110> APPLICANT: Avicore Biotechnology Institute Inc.
6 <120> TITLE OF INVENTION: Recombinant ScFv Antibodies Specific to Eimeria spp.

Responsible

7 for Coccidiosis
9 <130> FILE REFERENCE: Avicore-USA-1
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/083,424A
C--> 11 <141> CURRENT FILING DATE: 2002-08-16
11 <150> PRIOR APPLICATION NUMBER: KR 2001-52934
12 <151> PRIOR FILING DATE: 2001-08-30
14 <160> NUMBER OF SEQ ID NOS: 40
16 <170> SOFTWARE: KopatentIn 1.71
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 21
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable
25 region
28 <400> SEQUENCE: 1
29 ggaggagacg atgacttcgg t 21
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 21
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
39 region
42 <400> SEQUENCE: 2
43 gccgtgacgt tggacgagtc c 21
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 21
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
53 region
56 <400> SEQUENCE: 3
57 taggacggtc agggttgtcc c 21
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 21
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable

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TECH CENTER 1600/2800
SEP 16 2002

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Input Set : A:\5294-6 sequence listing for diskette - no page numbers.txt
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67 region
 70 <400> SEQUENCE: 4
 71 ggcgtgactc agccgtccctc g 21
 74 <210> SEQ ID NO: 5
 75 <211> LENGTH: 51
 76 <212> TYPE: DNA
 77 <213> ORGANISM: Artificial Sequence
 79 <220> FEATURE:
 80 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
 81 region
 84 <400> SEQUENCE: 5 51
 85 ggcggagggtg gctctggcg gggcgatcg gccgtgacgt tggacgagtc c
 88 <210> SEQ ID NO: 6
 89 <211> LENGTH: 21
 90 <212> TYPE: DNA
 91 <213> ORGANISM: Artificial Sequence
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
 95 region
 98 <400> SEQUENCE: 6 21
 99 ggaggagacg atgacttcgg t
 102 <210> SEQ ID NO: 7
 103 <211> LENGTH: 21
 104 <212> TYPE: DNA
 105 <213> ORGANISM: Artificial Sequence
 107 <220> FEATURE:
 108 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
 109 region
 112 <400> SEQUENCE: 7 21
 113 ggcgtgactc agccgtccctc g
 116 <210> SEQ ID NO: 8
 117 <211> LENGTH: 51
 118 <212> TYPE: DNA
 119 <213> ORGANISM: Artificial Sequence
 121 <220> FEATURE:
 122 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
 123 region
 126 <400> SEQUENCE: 8 51
 127 agagccacct ccgcctgaac cgcctccacc taggacggtc agggttgtcc c
 130 <210> SEQ ID NO: 9
 131 <211> LENGTH: 21
 132 <212> TYPE: DNA
 133 <213> ORGANISM: Artificial Sequence
 135 <220> FEATURE:
 136 <223> OTHER INFORMATION: reverse primer for PCR amplification of heavy chain variable
 137 region
 140 <400> SEQUENCE: 9 21
 141 gccgtgacgt tggacgagtc c
 144 <210> SEQ ID NO: 10

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145 <211> LENGTH: 51
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: forward primer for PCR amplification of heavy chain variable
151 region
154 <400> SEQUENCE: 10
155 agagccacct ccgcctgaac cgccctcacc ggaggagacg atgacttcgg t 51
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 51
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: reverse primer for PCR amplification of light chain variable
165 region
168 <400> SEQUENCE: 11
169 ggcggagggtg gctctggcgg tggcgatcg gcgctgactc agccgtcctc g 51
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 21
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: forward primer for PCR amplification of light chain variable
179 region
182 <400> SEQUENCE: 12
183 taggacggtc agggttgtcc c 21
186 <210> SEQ ID NO: 13
187 <211> LENGTH: 55
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
195 <400> SEQUENCE: 13
196 gtccctcgcaa ctgcggccca gccgggcat ggccgcgtg actcagccgt cctcg 55
199 <210> SEQ ID NO: 14
200 <211> LENGTH: 39
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
208 <400> SEQUENCE: 14
209 ggcacccctt gcgccgcgg aggagacgt gacttcgg 39
212 <210> SEQ ID NO: 15
213 <211> LENGTH: 55
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: reverse primer for PCR amplification of scFv
221 <400> SEQUENCE: 15

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 225 <210> SEQ ID NO: 16
 226 <211> LENGTH: 39
 227 <212> TYPE: DNA
 228 <213> ORGANISM: Artificial Sequence
 230 <220> FEATURE:
 231 <223> OTHER INFORMATION: forward primer for PCR amplification of scFv
 234 <400> SEQUENCE: 16
 235 ggcacccctt gcggccgcta ggacggtcag gttgtccc 39
 238 <210> SEQ ID NO: 17
 239 <211> LENGTH: 369
 240 <212> TYPE: DNA
 241 <213> ORGANISM: chicken hybridoma cell line 2-1
 243 <220> FEATURE:
 244 <221> NAME/KEY: CDS
 245 <222> LOCATION: (1)..(369)
 247 <400> SEQUENCE: 17
 248 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gga gga 48
 249 Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly
 250 1 5 10 15
 252 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc acc ttc agc agc cat 96
 253 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His
 254 20 25 30
 256 ggc atg atg tgg gtg cga cag acg ccc ggc aag ggg ctg gag tgg gtc 144
 257 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
 258 35 40 45
 260 gcg ggt att agc aac act ggt act tac acg tac tac gcg ccg gcg gtc 192
 261 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Ala Pro Ala Val
 262 50 55 60
 264 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc aca gtg agg 240
 265 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
 266 65 70 75 80
 268 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tac tac tgc 288
 269 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
 270 85 90 95
 272 gcc aaa ggt ggt gct tat tgt gct ggt tgt ggt gac atc gac gca 336
 273 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
 274 100 105 110
 276 tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc 369
 277 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 278 115 120
 281 <210> SEQ ID NO: 18
 282 <211> LENGTH: 123
 283 <212> TYPE: PRT
 284 <213> ORGANISM: chicken hybridoma cell line 2-1
 286 <400> SEQUENCE: 18
 287 Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly
 288 1 5 10 15
 290 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser His

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291 20 25 30
 293 Gly Met Met Trp Val Arg Gln Thr Pro Gly Lys Gly Leu Glu Trp Val
 294 35 40 45
 296 Ala Gly Ile Ser Asn Thr Gly Thr Tyr Thr Tyr Ala Pro Ala Val
 297 50 55 60
 299 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg
 300 65 70 75 80
 302 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
 303 85 90 95
 305 Ala Lys Gly Gly Ala Tyr Cys Ala Gly Cys Gly Gly Asp Ile Asp Ala
 306 100 105 110
 308 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 309 115 120
 312 <210> SEQ ID NO: 19
 313 <211> LENGTH: 372
 314 <212> TYPE: DNA
 315 <213> ORGANISM: chicken hybridoma cell line 5D11
 317 <220> FEATURE:
 318 <221> NAME/KEY: CDS
 319 <222> LOCATION: (1)..(372)
 321 <400> SEQUENCE: 19 48
 322 gcc gtg acg ttg gac gag tcc ggg ggc ggc ctc cag acg ccc gca gga
 323 Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly 48
 324 1 5 10 15
 326 gcg ctc agc ctc gtc tgc aag gcc tcc ggg ttc gac ttc agc agt tac 96
 327 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Asp Phe Ser Ser Tyr
 328 20 25 30
 330 gac atg att tgg gtg cga cag gcc ccc ggc aag ggg ctg gaa tac gtc 144
 331 Asp Met Ile Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
 332 35 40 45
 334 gcg ggt att aga agt gat ggt agt agc ata tac tac ggg gcg gcg gtg 192
 335 Ala Gly Ile Arg Ser Asp Gly Ser Ser Ile Tyr Tyr Gly Ala Ala Val
 336 50 55 60
 338 aag ggc cgt gcc acc atc tcg agg gac aac ggg cag agc act ctg agg 240
 339 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Leu Arg
 340 65 70 75 80
 342 ctg cag ctg aac aac ctc agg gct gag gac acc ggc acc tat tac tgc 288
 343 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys
 344 85 90 95
 346 gcc aaa agt tct tat ggt agt tgg aga ggt tct act ggt gac atc gac 336
 347 Ala Lys Ser Ser Tyr Gly Ser Trp Arg Gly Ser Thr Gly Asp Ile Asp
 348 100 105 110
 350 gca tgg ggc cac ggg acc gaa gtc atc gtc tcc tcc 372
 351 Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser
 352 115 120
 355 <210> SEQ ID NO: 20
 356 <211> LENGTH: 124
 357 <212> TYPE: PRT
 358 <213> ORGANISM: chicken hybridoma cell line 5D11

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/083,424A

DATE: 08/22/2002

TIME: 16:26:40

Input Set : A:\5294-6 sequence listing for diskette - no page numbers.txt
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date